

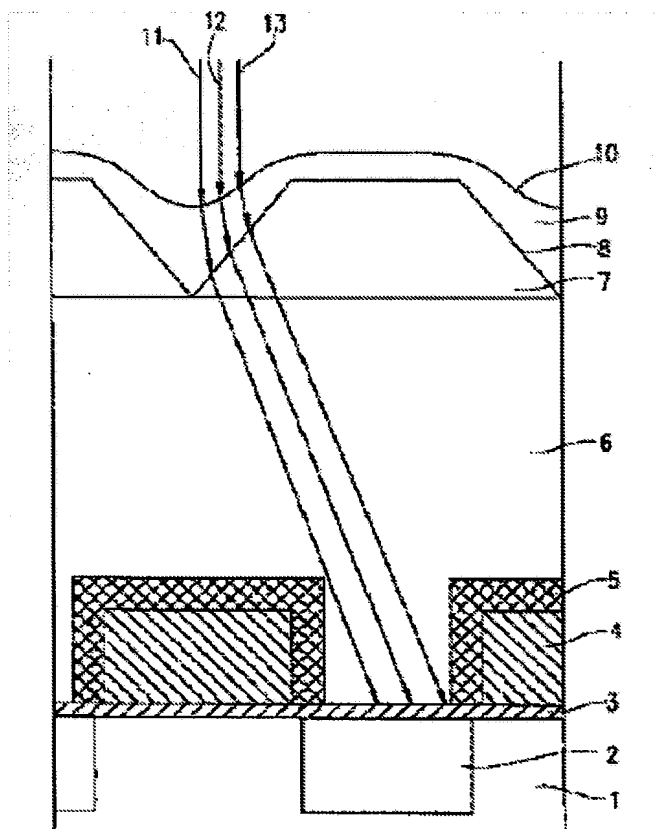
SOLID-STATE IMAGING DEVICE

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- international: H01L27/14; G02B3/00; G02B5/20; H04N5/335
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Abstract of JP2002280532

PROBLEM TO BE SOLVED: To suppress a smear phenomenon where signal charge leaking from unselected pixels causes blurring is suppressed by enhancing photosensitivity at a photoelectric converting section. **SOLUTION:** Light receiving parts, i.e., a plurality of photoelectric converting sections 2, are provided, at constant intervals, in a semiconductor substrate 1 and a charge transfer electrode 4 for transferring the signal charge generated from each photoelectric converting section 2 is provided between respective photoelectric converting sections 2 on the semiconductor substrate 1. A insulating film 6 is formed on the semiconductor substrate 1 to bury each charge transfer electrode 4, a pixel isolation film 7 is provided oppositely to the photoelectric converting section 2 on the insulating film 6 and a groove 8 having V-shaped cross section of a specified angle is formed between side faces of a pair of adjacent pixel isolation films 7.



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